Bajor, John

From:

Len Ashack < lashack@CityofJeff.net>

Sent:

Monday, August 06, 2018 8:37 AM

To:

Bajor, John

Cc:

TENNIS, DAVE; Bahr, Ryan .

RE: Request for information/ Fine screen specifications

Subject: Attachments:

10th St LS Headworks - Fine Screens Mechanical Submittal.pdf

John

My responses to your questions are in red below.

Thank you for your cooperation and interest in this matter and please let us know if you have any additional questions.

I appreciate your efforts. Thank you

Len Ashack | Director

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From: Bajor, John [mailto:bajor.john@epa.gov]

Sent: Friday, August 3, 2018 10:07 AM
To: Len Ashack lashack@CityofJeff.net

Cc: TENNIS, DAVE < DTENNIS@idem.IN.gov>; Bahr, Ryan < bahr.ryan@epa.gov>

Subject: Request for information/ Fine screen specifications

Good morning Len.

Good morning Len.

Would you please forward information (specifications on mesh size, etc.) on the fine screens that are to be employed for flows entering the proposed Actifio or CoMag (if selected) CEHRC process unit?

John

The Tenth Street Lift Station (TSLS) and the Downtown WWTP (DWWTP) have fine screens on the influent. The screens all have 1/4-in spacing.

The headworks at the DWWTP receives flow from the Tenth Street Lift Station (TSLS) as well as from the Mill Creek and String Street Lift Stations.

During dry weather all of the flow to the high-rate clarifier will be screened and de-gritted at the both the TSLS and at the headworks of the Downtown WWTP (DWWTP). During dry weather the high-rate clarifier will be used for phosphorus removal. The high-rate clarifier will follow the existing secondary treatment system.

TSLS

The Tenth St. LS receives flow from the combined sewer area. The TSLS has 2 – 25 MGD Mahr fine bar screens with ¼-in openings. I have attached the approved submittal for the screens. After passing through the screens the flow then enters one or both of the 25 MGD grit tanks (50MGD Total). The flow is then pumped to the DWWTP through the 24-in force main (during dry weather). During a wet weather event, the 24-in force main will be used and if the influent flow to the TSLS is still increasing, the valve on the 36-in force main opens and pumps to the DWWTP headworks.

Per the City's plan, influent flows up to 25 MGD (above 50.0 MGD to the WWTP) are proposed to be sent directly to the CEHRT from the 10th Street PS by way of the proposed 36" FM.

The 36-in force main from the TSLS has been in place since 2012.

Also would you please describe the influent and effluent flow routing through the fine screen building containing the two 25 MGD fine screens. Perhaps in a simple plan sketch/ drawing?

Both the DWWTP headworks and the TSLS have fine screens. So no matter if we are using the high-rate clarifier for phosphorus removal or for wet weather treatment, the influent to the high-rate clarifier will be screened and de-gritted

Thanks

THOUNS.

Len.

Regards.

John "Jack" J. Bajor, Jr.
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Jeffersonville, IN Tenth Street Pump Station Expansion & New Force Main Project

Mechanical Submittal

Headworks[®] Bar Screen MS1 & Transporter[™] TU 300 Reference Specification Section # 44 42 27 A and 44 42 27 B

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Jeffersonville, IN Tenth Street Pump Station Expansion & New Force Main Project

Mechanical Submittal

Headworks[®] Bar Screen MS1 & Transporter[™] TU 300 Reference Specification Section # 44 42 27 A and 44 42 27 B

Scope of Supply

Items and services to be supplied shall include the following:

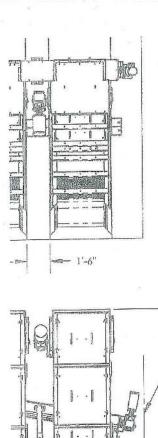
- 2 Headworks® Bar Screen, Pull-Out Type with Bar Spacing of 1/4"
- 1 Headworks[®] Transpactor[™], Model TU 300
- 2 Lots of Channel Wall and Floor Mounting Brackets
- 1 NEMA 4X Main Control Panel Enclosure for the Two Bar Screens
- 1 NEMA 4X Main Control Panel Enclosure for the TransporterTM
- 3 NEMA 7 Local Control Panels for the Bar Screens and Transporter™
- 1 One Lot of following Spare Parts shall be provided

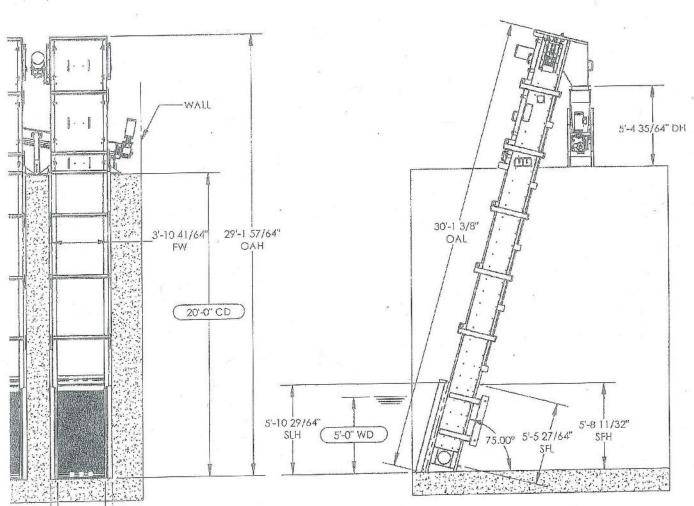
Bar Screen Spare Parts:

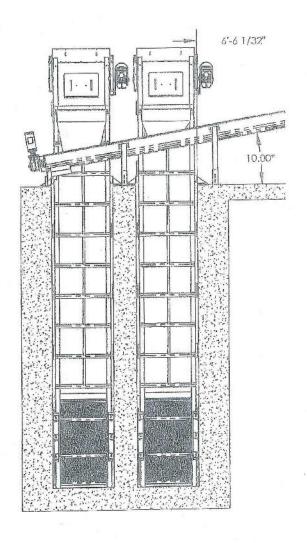
- 1. Two (2) rake bars
- 2. Five (5) feet of chain
- 3. One (1) pair wiper arm wear pads

Transporter TM Spare Parts:

- 1. One (1) Brush
- 2. One (1) Packing Rope
- 2 Milltronics Hydroranger 200 with Four (4) XPS-15F Transducers







	3/8"(10mm)	
4.0	5/16"(8mm)	N.S.
	5/16"(8mm)	N.S.
	1/2"(12mm)	N.S.
	3/8"(10mm)	
	1/2" UHMW BLADE	N.S.
	1/4"(6mm)	
	SA87-3HP	
	UCFX13	N.S.
	Ø70mm	N.5.
	125mm/Ø70mm	N.S.
	125mm PITCH	N.S.
	125mm/Ø70mm	N.S.
2	Ø40x60mm	N.S.
	8x4x40mm 1/4" SPACING	- Inde
ATE	1/4"(6mm)	

PER SCREENS ARE AS FOLLOWS: 14-15 & 4-13 UNK SEGMENTS W/18 MASTER LINKS

QUANTITY OF RAKES PER SCREEN - 9

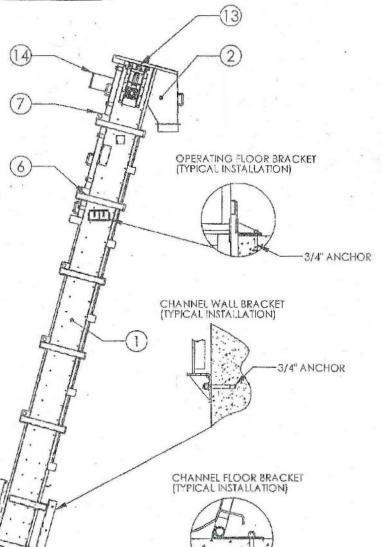
CHA'N DATA
CHAIN ULTIMATE STRENGTH = 30,000lbs [133kN]
CHAIN VEGGHT = 7.1 lb/fl.
CHAIN SPEED 47 ff/min - CLE APPROX. 8s
CHAIN SPEED 28f/min - CLE APPROX. 16s
CLE ACCURATE A CLEANING INTERVAL.

6. RALE SPACING = 6.3FT

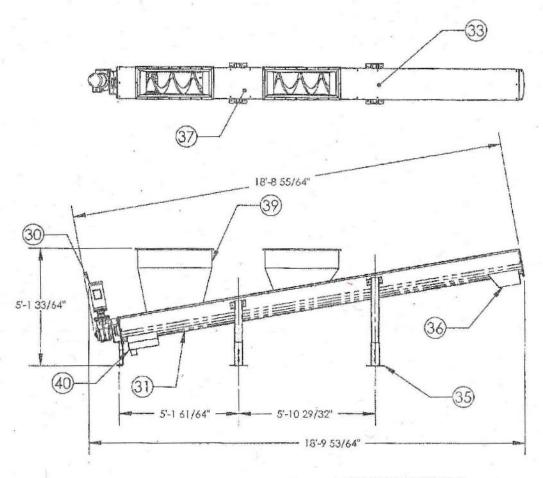
5.

7.

- ANCHOR BOLT LOCATIONS ARE ±1" (25.4mm) ACCURATE.
- ALL CIRCLED DIMENSIONS MUST BE FIELD VERIFIED



30488	Ø 2"	LIC
		N.S.
30485	14ga(2mm)	1
3045\$	14go(2mm)	



NOT SHEET SCALE SCALE 1:48